



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VII
901 NORTH 5TH STREET
KANSAS CITY, KANSAS 66101

April 19, 2001

North Star Steel
Jack Skelley
P.O. Box 749
Wilton, IA 52778

Re: Transmittal of Analytical Results
North Star Steel
RCRA ID#000223354

Dear Mr. Skelley:

Enclosed you will find copies of the analytical results from the soil and waste samples that were collected February 21-23, 2001, at the above-referenced facility on by the U.S. Environmental Protection Agency.

If you have any questions regarding this information, please contact me at (913) 551-7049.

Sincerely,

for
Dedriel Newsome
Environmental Engineer
Air and RCRA Compliance Branch
Environmental Services Division

Enclosure

cc: Iowa Department of Natural Resources



R00184416

RCRA RECORDS CENTER



United States Environmental Protection Agency

**Region 7 Laboratory
25 Funston Road
Kansas City, KS 66115**

Date: 3/21/2001

Subject: Transmittal of Sample Analysis Results for ASR #: 902

Activity Number: DLN16

Activity Description: North Star Steel

From: Michael Thomas, Associate Laboratory Director 
Regional Laboratory, Environmental Services Division

To: Dedriel Newsome
ENSV/ARCM

This is the sample analysis results transmittal for the above-referenced Analytical Services Request (ASR). The data contained in this transmittal have been approved by the Regional Laboratory. This transmittal contains all of the sample analysis results for this ASR. The Regional Laboratory should be notified within 14 days if any changes are needed to the contents of this report. If you have any questions, comments or data changes, please contact the Laboratory Customer Service Department at 913-551-5295.

cc: Analytical Data File

ASR Number: 902

Summary of Activity Information
3/21/2001

Activity Leader: Newsome, Dedriel
Activity Number: DLN16

Org: ENSV/ARCM

Phone: (913) 551-7049

Activity Desc: North Star Steel
Location: Wilton

State: Iowa

Type: RCRA

Purpose: Compliance monitoring

Explanation of Codes, Units and Qualifiers used on this report.

Sample QC Codes: QC Codes identify the type of sample for quality control

— = Field Sample
FD = Field Duplicate

Units: Specific units in which results are reported.

% = Percent
mg/kg = Milligrams per Kilogram
mg/L = Milligrams per Liter

Data Qualifiers: Specific codes used in conjunction with data values to provide additional information on the quality of reported results, or used to explain the absence of a specific value.

(Blank) = Values have been reviewed and found acceptable for use.
U = Not detected at or above the reportable level shown.

Activity Number: DLN16

ASR Number: 902

Sample Information Summary

Activity Desc: North Star Steel

3/21/2001

| Sample Numbe | QC Code | Matrix | Location | External Sample No. | Start Date | Start Time | End Date | End Time | Receipt Date |
|-----------------|------------|--------|---|------------------------|---------------|---------------|-------------|-------------|-----------------|
| 1 - __ | | Soil | South side overhead door, EAF dust lead-out bldg. grab sample (0-1 to 2" below gravel) | | 02/22/2001 | 9:45 | 02/22/2001 | 10:00 | 02/26/2001 |
| 1 - FD | | Soil | South side overhead door, EAF dust lead-out bldg. grab sample (0-1 to 2" below gravel)/Duplicate of sample 1 | | 02/22/2001 | 9:45 | 02/22/2001 | 10:00 | 02/26/2001 |
| 2 - __ | | Soil | North side of overhead door, EAF dust lead-out bldg. grab sample (0-1 to 2" below gravel) | | 02/22/2001 | 10:05 | 02/22/2001 | 10:20 | 02/26/2001 |
| 3 - __ | | Soil | Outside Southeast door of new baghouse bldg./gravel collected 2-6" from surface | | 02/22/2001 | 10:30 | 02/22/2001 | 10:40 | 02/26/2001 |
| 4 - __ | | Soil | Slag from intermediate slag set- down area, West of melt shop (about 2' off the ground) | | 02/22/2001 | 10:55 | 02/22/2001 | 11:10 | 02/26/2001 |
| 5 - __ | | Soil | Soil outside Southeast overhead door of old pelletizer bldg. (soil sample 0-1.5" depth) | | 02/22/2001 | 11:20 | 02/22/2001 | 11:40 | 02/26/2001 |
| 6 - __ | | Soil | Soil West of old baghouse bldg. (0-1.5" soil) | | 02/22/2001 | 11:45 | 02/22/2001 | 12:00 | 02/26/2001 |
| 7 - __ | | Soil | Fine dirt from Northwest corner outside old baghouse bldg. (0- 1.5" soil) | | 02/22/2001 | 12:00 | 02/22/2001 | 12:15 | 02/26/2001 |
| 8 - __ | | Soil | Rail car clean out dirt soil sample | | 02/22/2001 | 14:50 | 02/22/2001 | 14:55 | 02/26/2001 |
| 9 - __ | | Soil | Background soil sample from ditch off county gravel Rd. 1/2 mile Northwest of NNS facility | | 02/22/2001 | 15:45 | 02/22/2001 | 16:00 | 02/26/2001 |

Activity Number: DLN16

ASR Number: 902

RLAB Approved Analysis Comments

Activity Desc: North Star Steel

3/21/2001

| Analysis | Comments About Results For This Analysis |
|----------|--|
|----------|--|

Total Metals Analysis of TCLP Metals in Soil by ICAP

Low matrix spike/matrix spike duplicate recoveries, caused by matrix interference, may indicate a low bias in the sample results.

The laboratory control samples were in control.

Activity Number: DLN16

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RLAB Approved Sample Analysis Results

Activity Desc: North Star Steel

3/21/2001

| Analysis / Analyte | Units | 1-__ | 1-FD | 2-__ | 3-__ |
|--|-------|-----------|-----------|-----------|-----------|
| Percent Solid | | | | | |
| Solids, percent | % | 94.2 | 94.6 | 89.1 | 97.7 |
| TCLP Metals in Soil | | | | | |
| Arsenic | mg/L | 0.0500 U | 0.0500 U | 0.0514 | 0.0500 U |
| Barium | mg/L | 1.20 | 1.21 | 0.625 | 0.200 U |
| Cadmium | mg/L | 0.00500 U | 0.00500 U | 0.00500 U | 0.00500 U |
| Chromium | mg/L | 0.0100 U | 0.0117 | 0.0100 U | 0.0100 U |
| Lead | mg/L | 0.0500 U | 0.0500 U | 0.0500 U | 0.0500 U |
| Selenium | mg/L | 0.0500 U | 0.0500 U | 0.0500 U | 0.0500 U |
| Silver | mg/L | 0.0100 U | 0.0100 U | 0.0100 U | 0.0100 U |
| Total Metals Analysis of TCLP Metals in Soil by ICAP | | | | | |
| Arsenic | mg/kg | 5.00 U | 5.00 U | 5.00 U | 5.00 U |
| Barium | mg/kg | 308 | 309 | 70.2 | 2.85 |
| Cadmium | mg/kg | 24.1 | 24.2 | 4.29 | 1.00 U |
| Chromium | mg/kg | 898 | 931 | 193 | 2.00 U |
| Lead | mg/kg | 31.5 | 26.5 | 23.8 | 5.00 U |
| Selenium | mg/kg | 10.0 U | 10.0 U | 10.0 U | 10.0 U |
| Silver | mg/kg | 6.17 | 5.44 | 2.00 U | 2.00 U |

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RLAB Approved Sample Analysis Results

Activity Desc: North Star Steel

3/21/2001

| Analysis / Analyte | Units | 4-__ | 5-__ | 6-__ | 7-__ |
|--|-------|-----------|----------|----------|----------|
| Percent Solid | | | | | |
| Solids, percent | % | 99.9 | 84.5 | 88.5 | 54.7 |
| TCLP Metals in Soil | | | | | |
| Arsenic | mg/L | 0.0500 U | 0.0500 U | 0.0500 U | 0.0500 U |
| Barium | mg/L | 0.726 | 1.17 | 1.28 | 0.783 |
| Cadmium | mg/L | 0.00500 U | 0.0889 | 0.256 | 0.257 |
| Chromium | mg/L | 0.0100 U | 0.0100 U | 0.0100 U | 0.0117 |
| Lead | mg/L | 0.0500 U | 0.0500 U | 0.183 | 0.0500 U |
| Selenium | mg/L | 0.0500 U | 0.0500 U | 0.0500 U | 0.0500 U |
| Silver | mg/L | 0.0100 U | 0.0100 U | 0.0100 U | 0.0100 U |
| Total Metals Analysis of TCLP Metals in Soil by ICAP | | | | | |
| Arsenic | mg/kg | 5.00 U | 5.00 U | 5.00 U | 5.00 U |
| Barium | mg/kg | 197 | 200 | 189 | 211 |
| Cadmium | mg/kg | 24.6 | 40.7 | 42.6 | 63.2 |
| Chromium | mg/kg | 654 | 571 | 653 | 765 |
| Lead | mg/kg | 26.6 | 403 | 805 | 1670 |
| Selenium | mg/kg | 10.0 U | 10.0 U | 10.0 U | 10.0 U |
| Silver | mg/kg | 2.71 | 5.45 | 6.17 | 8.69 |

Activity Number: DLN16
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ASR Number: 902

RLAB Approved Sample Analysis Results
3/21/2001

| Analysis / Analyte | Units | 8-__ | 9-__ |
|--|-------|----------|-----------|
| Percent Solid | | | |
| Solids, percent | % | 88.0 | 54.6 |
| TCLP Metals in Soil | | | |
| Arsenic | mg/L | 0.0500 U | 0.0500 U |
| Barium | mg/L | 1.05 | 0.487 |
| Cadmium | mg/L | 0.0678 | 0.00500 U |
| Chromium | mg/L | 0.0100 U | 0.0100 U |
| Lead | mg/L | 0.0500 U | 0.0500 U |
| Selenium | mg/L | 0.0500 U | 0.0500 U |
| Silver | mg/L | 0.0100 U | 0.0100 U |
| Total Metals Analysis of TCLP Metals in Soil by ICAP | | | |
| Arsenic | mg/kg | 5.00 U | 5.00 U |
| Barium | mg/kg | 298 | 112 |
| Cadmium | mg/kg | 39.3 | 1.19 |
| Chromium | mg/kg | 584 | 15.6 |
| Lead | mg/kg | 538 | 16.5 |
| Selenium | mg/kg | 10.0 U | 10.0 U |
| Silver | mg/kg | 3.01 | 2.00 U |